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ROCKY MOUNTAIN STATION

TECHNICAL NOTES

of the

STN PUB ALASKA FOREST RESEARCH CENTER

U. S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE

JUNEAU, ALASKA

No. 27

Extension of Board Foot Form-Class Volume Tables for Western Redcedar

The accuracy of Girard Form Class Volume Tables in board feet when applied to western redcedar in Southeast Alaska was recently checked for the first time. In the past there were not sufficient tree measurements to make a satisfactory check. Results show that the tables are sufficiently accurate. For 32-foot logs the aggregate difference was 1.8% and the average deviation 8.3%. For 16-foot logs the figures were -3.8% and 11.7% respectively.

The study indicated the need for an extension of the board foot tables for 32-foot logs and by means of the equations in Girard and Bruce^{1/} this was done for form classes 56, 58, 60 and 62. The tables follow.

1/ Girard, J.W. and D. Bruce. Tables for estimating board foot volume of trees in 32-foot logs, Mason, Bruce and Girard, American Bank Bldg., Portland, Ore.

Extension of Board Foot Volume Tables, 32-foot logs

Form Class 56

DBH	Gross Vol. Scribner Dec. C.				
	No. of 32-foot logs				
	1	1½	2	2½	3
14	5				
16	8				
18	11	13	14		
20	15	17	18		
22	18	21	23		
24	22	26	29	36	43
26	27	31	35	44	52
28	32	37	41	52	62
30	37	43	48	61	73
32	43	49	56	70	84
34	49	57	64	80	96
36		63	73	92	110
38		71	82	103	123
40		81	92	115	138
42		89	102	128	154
44		98	113	142	170
46			125	156	187
48			136	171	205
50			149	187	224
52			162	203	244
54			176	220	264
56				237	285
58				257	307
60				274	330
62				295	354
64					379

Form Class 58

DBH	Gross Vol. Scribner Dec. C.				
	No. of 32-foot logs				
	1	1½	2	2½	3
14	6				
16	9				
18	12	14	15		
20	16	18	20		
22	20	23	25		
24	24	28	31	39	47
26	29	34	38	48	57
28	34	40	45	56	67
30	40	46	52	66	79
32	46	54	61	76	91
34	53	61	69	86	104
36		69	79	99	118
38		78	89	111	133
40		87	99	124	149
42		96	110	138	166
44		107	122	153	184
46			134	168	202
48			147	184	221
50			161	202	242
52			175	219	263
54			189	237	285
56				256	307
58				276	331
60				296	356
62					381
64					407

Form Class 60

DBH	Gross Vol. Scribner Dec. C.				
	No. of 32 foot logs				
	1	1½	2	2½	3
14	7	7	8		
16	10	11	12		
18	13	15	17		
20	17	20	22		
22	21	24	27		
24	26	30	34	43	51
26	31	36	41	51	61
28	34	39	44	57	67
30	43	50	57	71	85
32	50	58	65	82	98
34	57	63	75	94	112
36		73	85	107	128
38		84	96	120	144
40		94	107	134	161
42		104	119	149	179
44		115	131	165	198
46			144	181	217
48			158	198	238
50			173	217	260
52			188	235	282
54				255	306
56				276	330
58				296	356
60					382
62					409
64					438

Form Class 62

DBH	Gross Vol. Scribner Dec. C.				
	No. of 32 foot logs				
	1	1½	2	2½	3
14	8	7	9		
16	11	12	13		
18	14	16	18		
20	19	22	24		
22	23	27	30		
24	28	32	36	45	55
26	34	39	44	55	66
28	40	46	52	65	78
30	46	54	61	77	92
32	53	62	70	88	106
34	61	71	80	100	121
36		81	91	114	137
38		91	103	129	154
40		101	115	144	173
42		112	127	160	192
44		124	141	177	212
46			155	193	233
48			170	213	256
50			185	232	279
52			201	252	303
54				273	328
56				295	354
58				317	381
60					409
62					438
64					469

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H. E. Andersen